	Document ID	Current OR	Current XRef	Pages	1	Issue Date
1	US 5988007 A	74/424.87		22	☐	19991123
2	US 5388475 A	74/424.86	264/267 ; 264/318	9	☐	19950214
3	US 5295407 A	74/89.37		10	☐	19940322
4	US 5193409 A	74/424.83		8	☐	19930316
5	US 4945781 A	74/424.94	74/89.42	5	☐	19900807
6	US 4924722 A	74/424.83	74/388PS ; 74/499	6	☐	19900515
7	US 4905534 A	74/424.87		9	☐	19900306
8	US 4272476 A	264/225	264/220 ; 264/227 ; 74/424.87	5	☐	19810609
9	US 4074587 A	74/424.82	74/424.77	6	☐	19780221
10	US 3455004 A	29/898.057	29/415 ; 29/417	3	☐	19690715
11	US 3327551 A	74/424.87		5	☐	19670627
12	US 3192791 A	74/424.82	29/898.06 ; 29/898.068	8	☐	19650706
13	US 2502066 A	74/424.75		4	☐	19500101

	Title	Abstract
1	Ball screw apparatus	
2	Ball nut and method of manufacturing same	
3	Electric linear actuator	
4	Multiple circuit internal ball nut return assembly with radial drop-in insert for ball screw devices	
5	Ball screw mechanism	
6	Recirculating ball mechanism	
7	Lead screw with balls recirculating by deflector with half-spherical supports	
8	Manufacture of ball nut with internal crossover path for ball recirculation	
9	Screw-nut screw transmission coupling	
10	TEXT NOT AVAILABLE	
11	TEXT NOT AVAILABLE	
12	TEXT NOT AVAILABLE	
13	TEXT NOT AVAILABLE	

	Retrieval Classif	Inventor	U	S	C	P	2	3	4	5	Kind Codes	Source
1		Nishimura, Kentaro	☐	☒	☐	☐	☐	☐	☐	☐		USPAT
2		Shear, III, Walter J. , et al.	☒	☐	☐	☐	☐	☐	☐	☐		USPAT
3		Hirose, Goro , et al.	☒	☐	☐	☐	☐	☐	☐	☐		USPAT
4		Babinski, James A.	☒	☐	☐	☐	☐	☐	☐	☐		USPAT
5		Isert, Hugo	☒	☐	☐	☐	☐	☐	☐	☐		USPAT
6		Bacardit, Juan S. , et al.	☒	☐	☐	☐	☐	☐	☐	☐		USPAT
7		Andonegui, Pedro M.	☒	☐	☐	☐	☐	☐	☐	☐		USPAT
8		Benton, Robert L.	☒	☐	☐	☐	☐	☐	☐	☐		USPAT
9		Brusasco, Enzo	☒	☐	☐	☐	☐	☐	☐	☐		USPAT
10			☒	☐	☐	☐	☐	☐	☐	☐		USPAT
11			☒	☐	☐	☐	☐	☐	☐	☐		USPAT
12			☒	☐	☐	☐	☐	☐	☐	☐		USPAT
13			☒	☐	☐	☐	☐	☐	☐	☐		USPAT